

**MULTIPLE BALL SCREW ASSEMBLY WITH DIFFERING
PITCH USED TO OPTIMIZE FORCE
AND DISPLACEMENT OF BRAKE ACTUATOR**

ABSTRACT OF THE DISCLOSURE

A brake assembly has a caliper with a first brake pad and a second brake pad. The first brake pad is moveable relative to the caliper. A brake actuator moves the first brake pad and has a first threaded member and a second threaded member. The first threaded member has first thread characteristics for moving the brake actuator at a first speed and a first force. The second threaded member has a second thread characteristics for moving the brake actuator at a second speed and a second force. The first speed is greater than the second speed while the first force is lower than the second force.

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